



Leveraging Data as a Strategic Asset

Goal Leaders

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Goal Statement

- Leverage data as a strategic asset to grow the economy, increase the effectiveness of the Federal Government, facilitate oversight, and promote transparency.



Challenge

- The use of data is transforming society, business, and the economy. Data provided by the Federal Government have a unique place in society, and maintaining trust in Federal data is pivotal to a democratic process. The Federal Government needs a robust, integrated approach to using data to deliver on mission, serve customers, and steward resources while respecting privacy and confidentiality.



Opportunity

- Develop a long-term, enterprise-wide Federal Data Strategy to better govern and leverage the Federal Government's data.
- Enable government data to be accessible and useful for the American public, businesses, and researchers.
- Improve the use of data for decision-making and accountability for the Federal Government, including for policy-making, innovation, oversight, and learning.



The Federal Data Strategy is being developed by a team which includes representatives from the following organizations:

Executive Office of the President Leads:

Office of Management and Budget

- Office of the Federal Chief Information Officer
- Office of Information and Regulatory Affairs

Office of Science and Technology Policy

Agency Leads:

Department of Commerce

Small Business Administration





The Federal Data Strategy will be created with Federal data communities and stakeholders, including but not limited to:





Developing the Federal Data Strategy & Action Plan

Engaging the Public



82

speakers



47

events



601

comments

The process of developing the Federal Data Strategy has involved significant input from the Federal data community and the public.



Developing the Framework

In June 2019, OMB released the [Federal Data Strategy](#), a foundational document for enabling agencies to use and manage Federal data to serve the American people.

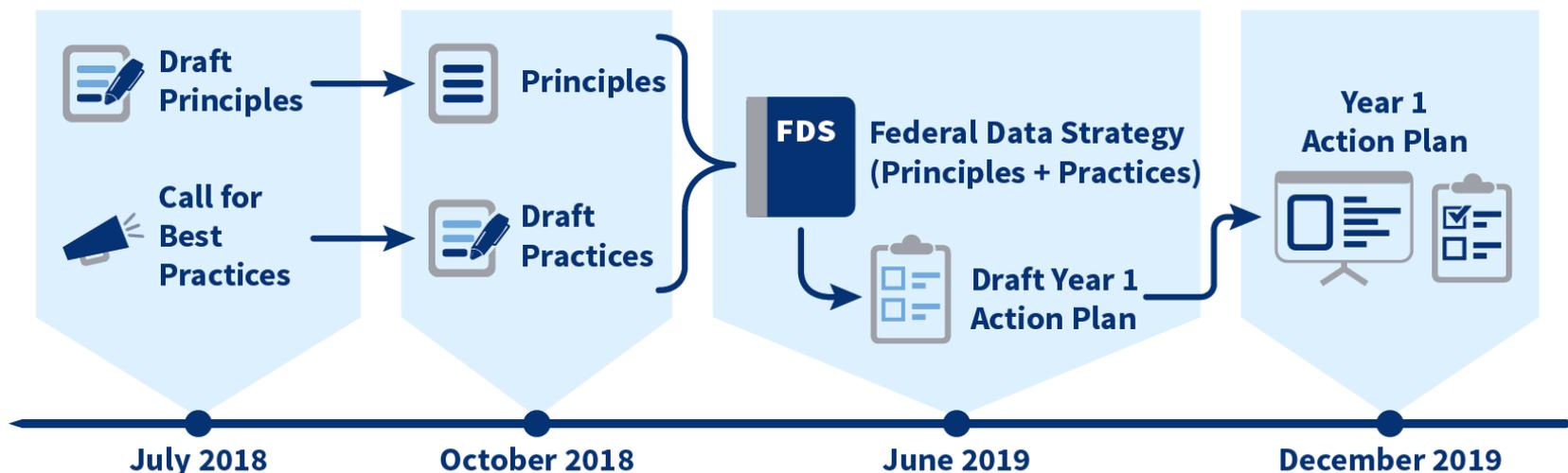
10 Principles – timeless enduring guide for agencies.

40 Practices – inspirational goals for a 5- to 10- year horizon to further the principles.



Driving Actions

In December 2019, OMB released the [Federal Data Strategy Action Plan for 2020](#) detailing a series of 20 initial actions for agencies and OMB that are essential for establishing processes, building capacity, and aligning existing efforts to better leverage data as a strategic asset.

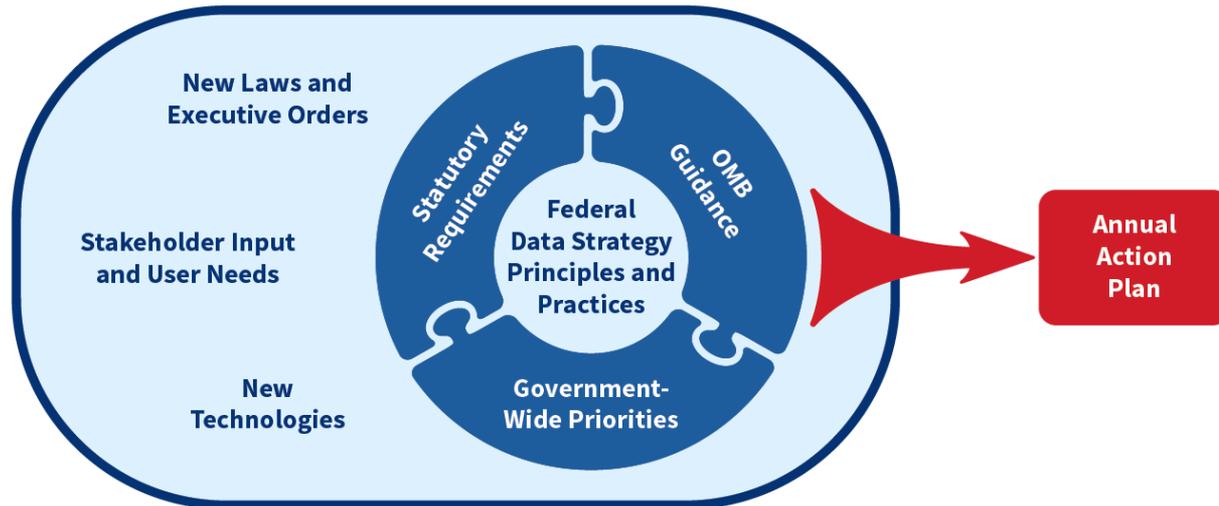




The Federal Data Strategy & Action Plan Framework

Mission Statement

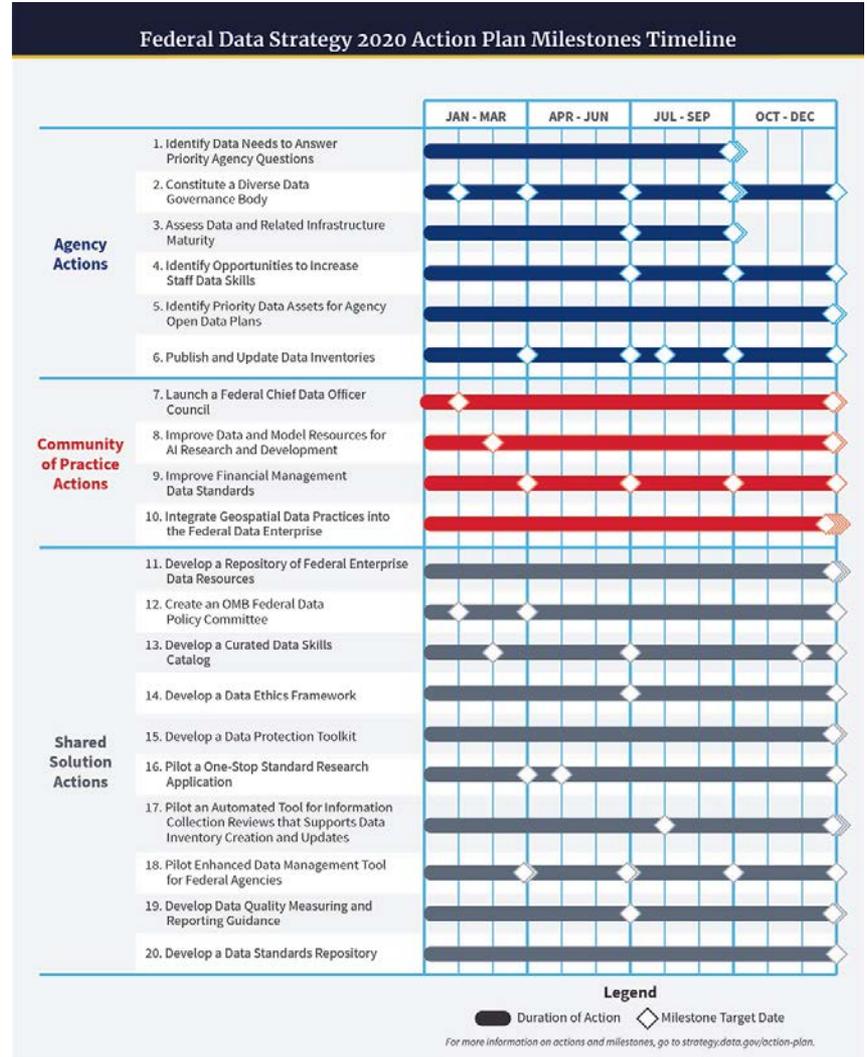
The mission of the Federal Data Strategy is to leverage the full value of Federal data for mission, service, and the public good by guiding the Federal Government in practicing ethical governance, conscious design, and a learning culture.







Federal Data Strategy 2020 Action Plan



The Federal Government has made significant progress in meeting its Data Strategy agenda:

Establishing Governance

- **77 agencies** have designated a **Chief Data Officer** (CDO), who oversees the generation, use, protection, and dissemination of Federal data at their agency and **26 agencies** have published a **Data Governance Body Charter**.
- Established a **Chief Data Officers Council** (CDO Council) that conducts monthly meetings and supports CDOs in fulfilling responsibilities and encourage data sharing between agencies.

Developing Workforce

- **1 Data Skills Catalog Framework** was drafted and distributed to several representatives of the Chief Data Officer (CDO) Council, the Interagency Council on Statistical Policy (ICSP), and the Chief Human Capital Officers (CHCO) Council for initial review.

Fostering Innovation

- **28 comments** on Identifying Priority Access or Quality Improvements for Federal Data and Models for Artificial Intelligence Research & Development were received and processed.
- Federal agencies **published 36% more datasets** as part of their data inventories during Q2 of CY 2020. During the period April through June 2020, agencies published 130,655 datasets (of which, 96% were public), while only 95,702 were published during Q1.
- The Federal Statistical Research Data Center program **piloted a one-stop research application portal** through the University of Michigan to expand data access, reducing the burden on researchers requesting access to restricted data assets.
- The General Services Administration **piloted an enhanced data management tool** to help agencies manage metadata catalogs and improve public and agency user experiences.





2020 Action Plan- Accomplishments

- Established a **Chief Data Officers Council** (CDO Council)
- Established a **Federal Data Policy Committee** to enhance OMB's coordination of Federal data policy, governance, and resource considerations
- Piloted a **one-stop research application portal** through the University of Michigan to improve and expand data access for evidence building while promoting transparency
www.icpsr.umich.edu/web/pages/appfed/index.htm
↓
- Drafted and distributed a **Data Skills Catalog and Data Ethics Framework** for public feedback. These products can be used by agency leaders to develop competencies for managing data as a strategic asset and to help guide the ethical management and use of data throughout the data lifecycle
- The Federal Data Strategy team **published a playbook** for improving agency data skills to assist federal agencies in meeting Action 4
- Published a **data governance playbook** to support agencies in meeting the requirement for Action 2.
- Piloted an **enhanced data management tool** on inventory.data.gov to provide agencies with a cost-effective option to increase data use and improve public and agency user experiences
- Realigned and incorporated the **IT Spending Transparency CAP Goal** under [Federal Data Strategy Action 9 “Improve Financial Data Standards”](#) to improve processes for IT budgeting and procurement to provide visibility and traceability





- 185** [Use Cases](#) – publicly-solicited hypotheses of how data can be used to improve outcomes
- 18** [Proof Points](#) – case studies on emergent data methods
- 3** [Playbooks](#) – operational checklists and question sets that help agencies achieve data-related functions
- 1** [Repository](#) – a one-stop shop for resources related to Federal data management and use





How the FDS Team Engaged Stakeholders



Metrics last updated on 8/19/20.





The Federal Data Strategy and 2020 Action Plan generated by this CAP Goal are working toward a future in which:

Public Outcomes

- Implement a long-term, enterprise-wide Federal Data Strategy to better govern and leverage the Federal Government's data through 10 annual action plans.
- American public, business, and research satisfaction with Federal Government data access and quality is among the best in the world.
- At least 80% of legislation proposals and budgets cite Federal Government evidence-based planning instruments.

Federal Operations

By prioritizing data uses, the Federal Government can derive more value from otherwise unanticipated or secondary uses of data assets, and more strategically execute data management improvements. Specifically, by 2030 the Federal Government will:

- **Build a Culture that Values Data and Promotes Public Use** by implementing the Federal Data Strategy practices 1-10: *e.g. enabling external users to access and use government data for commercial and other public purposes spurs innovative technological solutions and fill gaps in government capacity and knowledge; increasing the sharing and use of data for Federal decision-making and operational uses.*
- **Govern, Manage, and Protect Data** by implementing the Federal Data Strategy practices 11-26: *e.g. providing data management tools, protocols, and sharing; providing secure data sharing solutions for Federal data sharing; providing secure data access for state/local governments; and providing accessible high performance computer environments.*
- **Promote Efficient and Appropriate Data Use** by implementing the Federal Data Strategy practices 27-39: *e.g. planning from the outset for secondary data uses through stakeholder engagement and sufficient information to assess fitness for use; and utilizing data and operational maturity models and evidence-based planning assessments.*





Critical Milestones and Capabilities

Agencies will implement the Federal Data Strategy 2030 Vision through annual action plans, see: strategy.data.gov/action-plan. Specifically, agencies in 2020 will:

- **Build a Culture that Values Data and Promotes Public Use** by implementing the Federal Data Strategy practices 1-10 by:
 - *Identifying Data Needs to Answer Priority Agency Questions (Action 1)*
 - *Identifying Priority Data Assets for Agency Open Data Plans (Action 5)*
 - *Improving Data and Model Resources for AI Research and Development (Action 8)*
 - *Piloting a One-stop Standard Research Application (Action 16)*
- **Govern, Manage, and Protect Data** by implementing the Federal Data Strategy practices 11-26 by:
 - *Constituting Diverse Data Governance Bodies (Action 2)*
 - *Publishing and Updating Data Inventories (Action 6)*
 - *Launching a Federal Chief Data Officer Council (Action 7)*
 - *Improving Financial Management Data Standards (Action 9)*
 - *Integrating Geospatial Data Practices into the Federal Data Enterprise (Action 10)*
 - *Developing a Repository of Federal Enterprise Data Resources (Action 11)*
 - *Creating OMB Federal Data Policy Committee (Action 12)*
 - *Developing a Data Protection Toolkit (Action 15)*
 - *Piloting an Automated Tool for Information Collection Reviews that Supports Data Inventory Creation and Updates (Action 17)*
 - *Piloting Enhanced Data Management Tool for Federal Agencies (Action 18)*
 - *Developing a Data Standards Repository (Action 20)*
- **Promote Efficient and Appropriate Data Use** by implementing the Federal Data Strategy practices 27-39 by:
 - *Assessing Data and Related Infrastructure Maturity (Action 3)*
 - *Identifying Opportunities to Increase Staff Data Skills (Action 4)*
 - *Developing a Curated Data Skills Catalog (Action 13)*
 - *Developing a Data Ethics Framework (Action 14)*
 - *Developing Data Quality Measuring and Reporting Guidance (Action 19)*

